Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended): A gas dynamic pressure bearing comprising:

a shaft,

a sleeve whose inner peripheral surface is opposed to an outer peripheral surface of the shaft through a micro-gap, and

a substantially cylindrical hub which applies a surface pressure to an outer side of the sleeve and which is fitted to the sleeve, in which

a dynamic pressure generating groove is formed on at least one of the outer peripheral surface of the shaft and the inner peripheral surface of the sleeve,

wherein $\alpha_1 \leq \alpha_0 \leq \alpha_2$, where α_0, α_1 and α_2 respectively denote [[if]] linear expansion coefficients of the shaft, the sleeve and the hub ~~are defined as α_0, α_1 and α_2, respectively, a relation of $\alpha_1 < \alpha_0 < \alpha_2$ is satisfied~~.

2. (currently amended): The gas dynamic pressure bearing as set forth in claim 1, wherein [[if]] a fastening width between the sleeve and the hub at 20°C is defined as δ, and a fitting diameter between the sleeve and the hub is defined as $2R_2$ and a difference between the maximum using temperature and 20°C is defined as ΔT, and the following relation expression (1) is satisfied, ~~and~~

~~if a thickness of the sleeve is defined as t_1 and a thickness of the hub is defined as t_2, the following relation expression (2) is satisfied:~~

$$2R_2\Delta T (\alpha_2 - \alpha_1) \leq \delta \quad \ldots (1).$$

~~$t_2/t_1 \geq 0.25$ ... (2).~~

3. (currently amended): A motor comprising ~~having a gas dynamic pressure bearing, comprises~~:

a shaft;[[,]]

a sleeve whose inner peripheral surface is opposed to an outer peripheral surface of the shaft through a micro-gap;~~, and~~

a substantially cylindrical hub which applies a surface pressure to an outer side of the sleeve and ~~which~~ is fitted to the sleeve;~~, in which~~

a bracket arranged to fix the shaft;

a stator mounted on the bracket; and

a magnet mounted on the hub and opposed to the stator, wherein

a dynamic pressure generating groove is formed on at least one of the outer peripheral surface of the shaft and the inner peripheral surface of the sleeve, ~~wherein~~ and

$\alpha_1 < \alpha_0 < \alpha_2$, where α_0, α_1 and α_2 respectively denote [[if]] linear expansion coefficients of the shaft, the sleeve and the hub ~~are defined as α_0, α_1 and α_2, respectively, a relation of $\alpha_1 < \alpha_0 < \alpha_2$ is satisfied, and~~

~~the motor further comprises a bracket for fixing the shaft, a stator mounted on the bracket, and a magnet mounted on the hub such as to be opposed to the stator~~.

4. (currently amended): The motor as set forth in claim 3, wherein ~~in the gas dynamic pressure bearing,~~ [[if]] a fastening width between the sleeve and the hub at 20°C is defined as δ, and a fitting diameter between the sleeve and the hub is defined as $2R_2$ and a difference between the maximum using temperature and 20°C is defined as ΔT, and the following relation expression (1) is satisfied, ~~and~~

~~if a thickness of the sleeve is defined as t_1 and a thickness of the hub is defined as t_2, the following relation expression (2) is satisfied:~~

$$2R_2\Delta T(\alpha_2 - \alpha_1) \leq \delta \quad \ldots (1).$$

~~$t_2/t_1 \geq 0.25$ ... (2).~~

5. (currently amended): A disk apparatus on which a disk-like storage medium capable of storing information is mounted, the disk apparatus comprising:[[;]]

a housing;[[,]]

a motor ~~for spinning the recording disk~~ arranged to spin the disk-like storage medium and fixed inside said housing;[[,]] and

[[and]] a data access ~~means for reading/writing data~~ unit arranged to read information from and/or write information on the ~~recording disks~~ disk-like storage medium, wherein

the motor ~~comprises~~ includes: a shaft;[[,]] a sleeve ~~opposed~~ whose inner peripheral surface is opposed to an outer peripheral surface of the shaft through a micro-gap;~~, and~~ a substantially cylindrical hub which is fitted to the sleeve [[when]] with a surface pressure [[is]] applied to an outer side of the sleeve;[[,]] a bracket fixing the shaft; a stator mounted on the bracket; and a magnet mounted on the hub and opposed to the stator,

~~the motor further comprises a gas dynamic pressure bearing in which~~ a dynamic pressure generating groove is formed on at least one of the outer peripheral surface of the shaft and the inner peripheral surface of the sleeve, and

$\alpha_1 < \alpha_0 < \alpha_2$, where α_0, α_1 and α_2 respectively denote [[if]] linear expansion coefficients of the shaft, the sleeve and the hub ~~are defined as α_0, α_1 and α_2, respectively, a relation of $\alpha_1 < \alpha_0 < \alpha_2$ is satisfied~~ [[,]]

~~the motor further comprises a bracket for fixing the shaft, a stator mounted on the bracket, and a magnet mounted on the hub such as to be opposed to the stator~~.

6. (currently amended): A hard disk drive as set forth in claim 5, wherein ~~in the gas dynamic pressure bearing,~~ [[if]] a fastening width between the sleeve and the hub is defined as δ, and a fitting diameter between the sleeve and the hub is defined as $2R_2$ and a difference between the maximum using temperature and 20°C is defined as ΔT, and the following relation expression (1) is satisfied, ~~and~~

~~if a thickness of the sleeve is defined as t_1 and a thickness of the hub is defined as t_2, the following relation expression (2) is satisfied:~~

$2R_2\Delta T\,(\alpha_2 - \alpha_1) \leq \delta$ ... (1).

~~$t_2/t_1 \geq 0.25$ ... (2).~~